SOV/137-58-9-19407

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 180 (USSR)

AUTHOR: Ustimova, V.N.

TITLE: Utilization of Radioactive Isotopes for the Study of Diffusion of Sulfur (Primeneniye radioaktivnykh izotopov dlya izucheniya diffuzii sery)

PERIODICAL: V sb.: Mashinostroitel' Belorussii. Nr 4. Minsk, 1957, pp 159-161

ABSTRACT: With the aid of radioactive S^{35} the distribution of S in the surface layer of sulfidized specimens of grey iron and Armco-Fe was investigated. Cylindrical specimens between the butt ends of which the S-saturating compound was packed, were pressed in pairs into steel sleeves which were heated in a retort furnace at 540°C for three hours. Then the specimens were unpacked, washed in a hot NaOH solution, and rubbed with alcohol. The distribution of S was determined by the layer-by-layer radiometric analysis on a "B" type installation with an end-window gas counter of β radiation. The S saturation was conducted in two media: 1) In a sulfocyaniding bath (90% $K_4Fe(CN)_6$, 10% NaOH, and 5% over 100% of FeS_2); 2) in a

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Utilization of Radioactive Isotopes for the Study of Diffusion of Sulfur

pyrite, FeS_2, bath. It is established that in the first bath the depth of penetration of S in Armco-Fe and in grey iron constitutes 0.03 and 0.04 mm, respectively. In the second bath this depth is somewhat greater and constitutes 0.035 mm for Armco-Fe and 0.06 mm for grey iron. The curves of the depthwise distribution of S bear a resemblance to the curves of the distribution of C in a carburized layer.

M.Sh.

1. Iron--Processing 2. Sulfur--Diffusion 3. Sulfur isotopes (Radioactive)--Performance
4. Diffusion--Test results

Card 2/2

Country : USSR
Category : Forestry. Forest Cultures. K

Abs Jour : RZhBiol., No 6, 1959, No 24747

Author : Ustimovs'ka, L. T.
Inst : Ukrainian Academy of Agricultural Sciences.
Title : Effect of Forest Plantations on the Harvest of Agricultural Products.
Orig Pub : Dopovid Ukr. akad. sil's'kogospod. nauk, 1958, No. 2, 56-59

Abstract : Field-shelter forest belts and the gully forests in Belovodskiy Rayon of Luganskaya Oblast (Ukrainian SSR) in 1955, a year favorable for wetting down the soil, showed a positive effect. Harvest of the winter wheat under the protection of the forest belt at a distance of 30 altitudes of the wood stand was larger by 5.2 c/ha; harvest of the winter rye, by 3.6 c/ha. The number of grains in the spike and their abso-

Card : 1/2

Country : USSR
Category : Forestry. Forest Cultures. K

Abs Jour : RZhBiol., No 6, 1959, No 24747

Author :
Inst :
Title :

Orig Pub :

Abstract : lute weight were also larger. Forest plantations, located on the southern and eastern sides of the fields proved to be most effective. The greatest effect on the harvest was noted on the southern slope, protecting the fields from the east. -- V. I. Klimov

Card : 2/2

END

USTIN, B. K.

Cigarette Industry

New construction of a mechanical automatic stop for Semenov mouthpiece machines. Tabak 13 No. 4, 1952.

Monthly Listof Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

FROLKIN, S. [translator]; USTIN, P., red.

[Eighth All-Chinese Congress of Trade Unions; papers and documents] VIII Vsekitaiskii s"ezd profsoiuzov; materialy i dokumenty. Moskva, Profizdat, 1958. 357 p. (MIRA 13:2)

1. Vsekitayskiy s"yezd professional'nykh soyuzov. 8th, Peking, 1957.
(China--Trade unions)

L 04315-67 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6018387 (A) SOURCE CODE: UR/0133/66/000/006/0522/0522

AUTHORS: Antropov, O. F.; Ustin, K. P.

59
B

ORG: none

TITLE: Development and improvement in production process for thermally stable alloys by vacuum arc smelting, for products with improved serviceability (UkrNIIspetsal')

SOURCE: Stal', no. 6, 1966, 522

TOPIC TAGS: thermal stability, alloy, vacuum arc furnace, metallurgy, electrode design / EI437B alloy

ABSTRACT: Advantages of the use of cast electrodes over forged ones are described in the preparation of EI437B alloy by vacuum smelting. The process is simplified and the manufacturing cost of the rods is lowered. The optimal uniformity of macrostructure is obtained during smelting at I = 4.5 kiloamperes and U = 24.5--25.0 v. At these conditions the pilot plant wastes can be lowered from 20 to 10--12%.

SUB CODE: 11,13 SUBM DATE: none

Card 1/1 gl UDC: 669.187.2.083.4:621.365.2.001.5

USTINCHIK, A. K., Cand Agr Sci -- (diss) "Principal reserves in the increase of productivity of sugar beets under the conditions of the Kirovogradskaya oblast." Odessa, 1960. 22 pp; (Ministry of Agriculture Ukrainian SSR, Odessa Agricultural Inst); 200 copies; price not given; (KL, 17-60, 164)

USTINENKO, Anna Yevgen'yevna, svinarka; SMLEZNEV, N.G., red.; PULIN, L.I., tekhn.red.

[I'll carry out my plans; from work practices] Zadumannoe osushchestvliu; iz opyta raboty. Tula, Tul'skoe knizhnoe izd-vo, 1960. 13 p. (MIRA 14:1)

1. Sovkhoz "Novo-Medvenskiy" Leninskogo rayona (for Ustinenko).
(Swine--Feeding and feeds)

RYZHKOV, F.N.; USTINENKO, I.G.

Filling mined areas with wastes from an ore-dressing plant. Gor.zhur. no.3:59-61 Mr '56. (Mine filling) (MLRA 9:7)

MANDZHIKOV, F.Ch.; SAVINKOV, B.N.; USTINENKO, L.P.

Unit for making one story-high concrete ventilation blocks.
Suggested by F.Ch.Mandzhikov, B.N.Savinkov, L.P.Ustinenko.
Rats.i izobr.predl. v stroi. no.10:32-36 '59.
(MIRA 12:11)

1. Po materialam tresta Metallurgstroy Kuybyshevskogo sovnarkhoza.
(Concrete slabs)

USTINENEKO, L. V.

The Acoustic Field of a Uniformly Moving Point Source of Sound

The problem of finding the field of velocities, generated by a uniform and rectilinear motion of a point source of sound in a compressible fluid, with relation to the immobile terrestrial surface, is solved. The equipotential surfaces appear to be ellipsoids or hyperboloids of revolution, depending on the ratio of source velocity to velocity of propation. (RZhFiz, No. 8, 1955) Sb. Nauch. Tr. Kharkovsk. in-ta Inzh. Kommun. Stroitel'stva, No. 5, 1954, 143-159.

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

SOV/124-58-2 1665

Translation from: Referativnyy zhurnal. Mekhanika, 1958, Nr 2, p 25 (USSR)

AUTHOR: Ustinenko L. V. [Ustynenko L. V.]

TITLE: The Acoustic Field of a Sound Source Engaged in a Nonuniform Motion (Akusticheskoye pole neravnomerno dvizhushchegosya istochnika zvuka) in Ukrainian

PERIODICAL: Nauk. pratsi Kharkivs'k. in-t inzh. komun. budivnytstva, 1956, Nr 7, pp 177-183

ABSTRACT: The article considers the field produced by a source of arbitrary shape and size and moving with a subsonic velocity. The concept of a center of source intensity is introduced, as follows:

$$r_c = \frac{1}{Q} \int q \bar{r} \, ds \qquad \left(q = \frac{dQ}{ds}\right)$$

where Q is a function determining the strength and directional characteristics of the source. The value of the velocity potential in an arbitrary point of the field is recorded in the form of a

Card 1/2

The Accoustic Field of a Sound Source Engaged in a Nonuniform Motion

potential which would correspond to the sound produced by a point source having the same strength and directional characteristics.

A. A. Kaspar'yants

Card 2/2

USTINENKO, V.L., kand.tekhn.nauk, dotsent

Effect of some factors on bending stresses in gear teeth. Vest. mashinostr. 42 no.11:33-35 N '62. (MIRA 15:11)
(Gearing)

USTINENKO, V.L., kand.tekhn.nauk,dotsent

Calculation for banding of gear-wheel teeth with internal involute engagement. Vest.mashinostr. 44 no.7:32-33 Jl '64. (MIRA 17:9)

USTINIENKO, W.L., doc., k.n.t. [Ustinenko, V.L.]

Calculation of bending resistance for inner teeth. Przegl mech 23 no. 21:631-632 10 N '64.

USTININKOV, B. A., Cand Tech Sci -- (diss) "Investigation of conditions of pulping starchy raw material at reduced temperatures." Michurinsk, 1960. 24 pp with graphs; (Ministry of Higher and Secondary Specialist Education USSR, Moscow Technological Inst of Food Industry); 150 copies; price not given; (KL, 51-60, 119)

ACC NR: AP6027630 (A) SOURCE CODE: UR/0145/66/000/006/0102/0106

AUTHOR: Ustinkin, N. D. (Engineer)

ORG: None

18
B

TITLE: A stand for field studies of high-speed ground cutting

SOURCE: IVUZ. Mashinostroyeniye, no. 6, 1966, 102-106

TOPIC TAGS: construction machinery, excavating machinery, soil mechanics

ABSTRACT: The author describes a stand developed in 1964 in the Construction Machine Department of the Moscow Civil Engineering Institute for studying the process of ground cutting at high speeds. The energy of a freely falling weight is used for generating tractive force. This method may be used for developing high cutting speeds without requirements for a powerful drive mechanism since the weight may be raised slowly. Cutting speeds of 10-15 m/sec may be achieved for testing elementary cutting tools and cutting perimeters of various shapes with motion picture photography of the earth removal process. Cutting speed is oscillographically recorded together with the tangential and normal components of resistance to establish the relationship between cutting resistance and speed. The stand (see figure) is based on the M4043 forklift truck equipped with a boom. The unit consists of dynamometric trolley *1*, connected to weight *2* by wire cable *3*, track *4*, guide frame *5*, forklift truck *6*, rings *7* suspended from the boom on special hangers, hooks *8* for suspending the load from the ring, bracket with counterweight *9* for holding the hooks on the ring, a tripping device which con-

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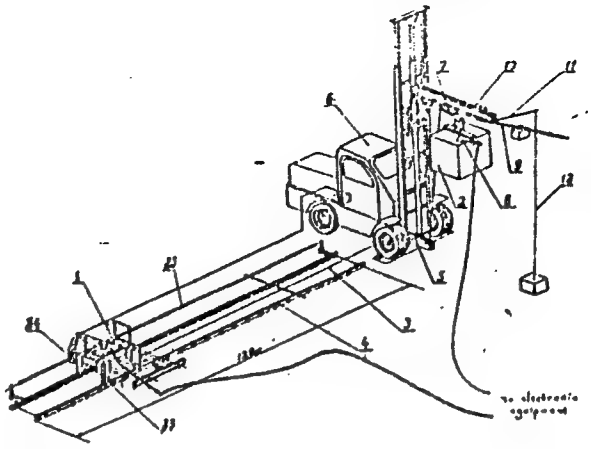
UDC: 624.130

ACC NR: AP6027630



sists of hook *10* which supports the bracket and trip lever *11* connected by a cable to hook *10*. The load may be dropped either manually by pulling the cable connected to the trip lever or automatically during raising of the weight by means of height limiter *12*. Pulling the cable rotates trip lever *11* clockwise and pulls support hook *10* away from the lift boom which disengages bracket *9*. The bracket is turned by the counterweight around a hinge on ring *7* and thus releases hooks *8*. The hooks slip from the ring and the weight falls. A diagram of the dynamometric trolley is given together with a detailed description. The trolley contains a pickup which sends a signal proportional to the cutting speed to an oscillograph. The curve on the oscillogram has a slope proportional to the cutting speed. This recording may be used to determine the acceleration of the trolley at any point by graphic differentiation. Weights of 300-3000 kg may be raised to a maximum height of 4 m. Tests of the stand showed satis-

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ACC NR: AP6027630

factory operational characteristics. The article was presented for publication by Doctor of technical sciences, Professor N. G. Dombrovskiy, Moscow Civil Engineering Institute. Orig. art. has: 3 figures.

SUB CODE: 13/ SUBM DATE: 24Dec65/ ORIG REF: 002

Card 3/3 ogk

USTINNIKOV, B.A.

Closing devices for the prevention of contamination. Spirt. prom. 23 no.2:28-31 '57. (MIRA 10:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut spirtovoy promyshlennosti.
(Distilling industries--Equipment and supplies)

USTINNIKOV, B.A.; LEVCHIK, A.P.; NECHIPORENKO, A.A.

Wet grinding of grain in hammer mills. Spirt. prom. 24 no.1:34-35 '58. (MIRA 11:3)

(Distilling industries)
(Grain-milling machinery)

USTINNIKOV, B.A.; NECHIPORENKO, A.A.

Continuous cooking of starchy raw materials at the Michurinsk Alcohol Plant. Spirt.prom. 25 no.1:25-28 '59. (MIRA 12:2)
(Michurinsk--Alcohol)

USTINNIKOV, B.A.

Means of reducing the viscosity of a mix designed continuous cooking. Spirt.prom. 26 no.3:8-13 '60. (MIRA 13:10)
(Alcohol)

USTINNIKOV, B.A.

Optimum conditions for the process of cooking starchy raw materials at lower temperatures. Spirt.prom. 26 no.6:23-27 '60. (MIRA 13:11)

(Alcohol)

YAROVENKO, V.L.; USTINNIKOV, B.A.; PYKHOVA, S.V.; LAZAREVA, A.N.

Testing and improvement of the technological flow sheet for the combined processing of potatoes to starch and alcohol in the Michurinsk Distillery. Trudy TSNIISP no.12:46-50 '62. (MIRA 17:3)

YARCVENKO, V.L.; USTINNIKOV, B.A.; PYKHOVA, S.V.; LAZAREVA, A.N.; KUCHEROVA, E.A.,

Utilization of the cellular juice of potatoes in the combined production of starch and alcohol. Trudy TSNIISP no. 13:3-10 '62. (MIRA 17:5)

YAROVENKO, V.L.; PYKHOVA, S.V.; USTINNIKOV, B.A.; LAZAREVA, A.N.; MAKEYEV, D.M.

Fermentative hydrolysis of starch in continuous alcohol fermentation. Ferm.i spirt.prom. 31 no.1:5-10 '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut fermentnoy i spirtovoy promyshlennosti.

USTINNIKOV, B.A.; BRIGADENKO, M.K.; MASLECHKINA, R.S.

Flow sheet for sugar beet processing to alcohol. Ferm. i spirt. prom. 31 no.4:14-17 '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut fermentnoy i spirtovoy promyshlennosti.

YAROVENKO, V.L.; USTINNIKOV, B.A.; LEVCHIK, A.P.; NECHIPORENKO, A.A.

Processing of sugar beets in a mixture with grain and potato raw materials and molasses. Ferm. i spirt. prom. 31 no.6:37-40 '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut fermentnoy i spirtovoy promyshlennosti (for Yarovenko, Ustinnikov).
2. Michurinskiy spirtozavod (for Levchik, Nechiporenko).

FREMEL', V. B.; LOSYAKOVA, L. S.; USTINNIKOVA, Yu. N.

Use of flour and distilling wash concentrate for the production of feed terramycin. Spirt. prom. 28 no.8:25-26 '62. (MIRA 16:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut spirtovoy promyshlennosti.

(Oxytetracycline)

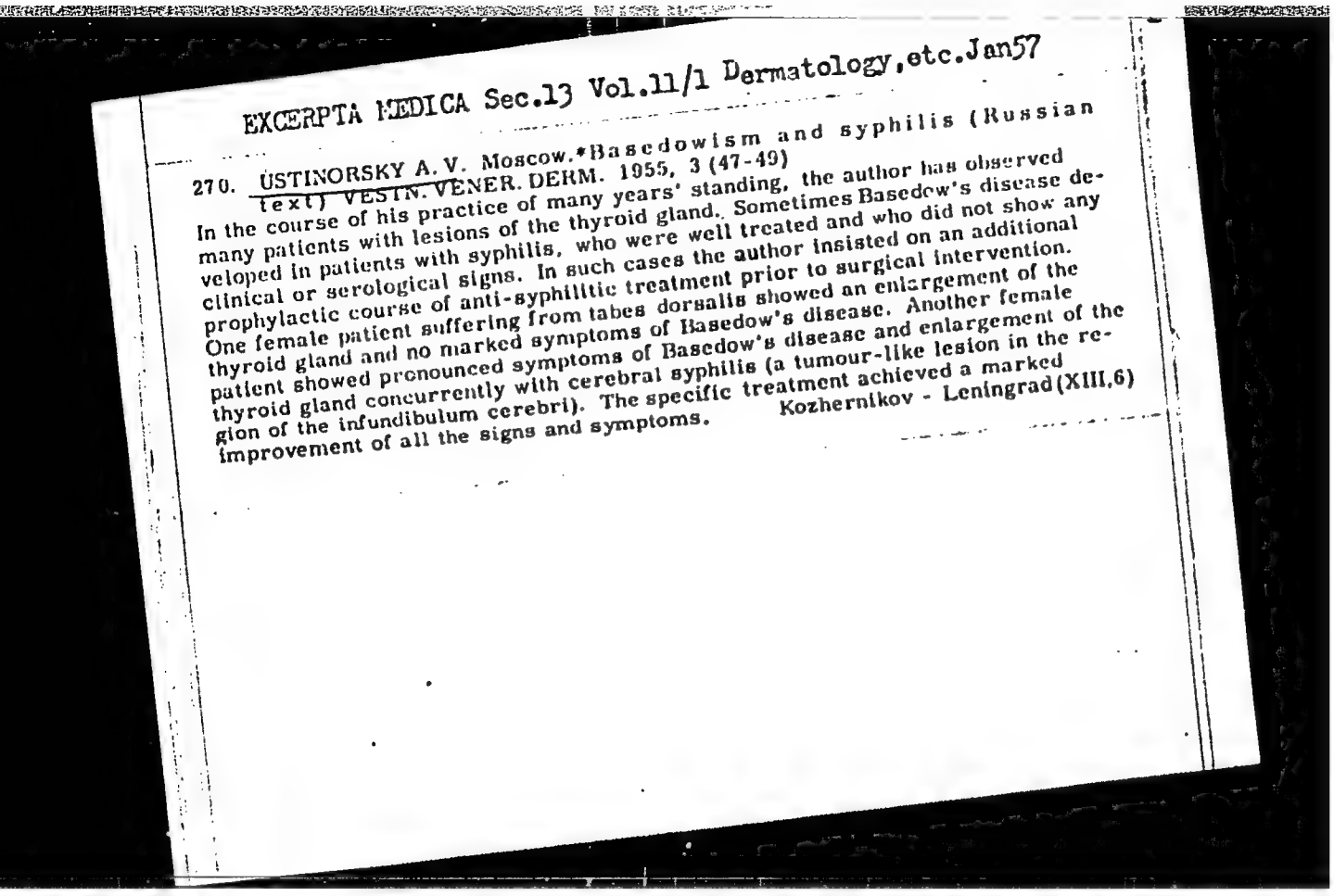
USTINORSKIY, A.V.

EXCERPTA MEDICA Sec.6 Vol.10/12 Internal Medicine D'56

7391. USTINORSKY A.V. Moscow. *Hyperthyroidism and syphilis (Russian text) VESTN. VENER. DERM. 1955, 3 (47-49)

In the course of a many years' practice the author has observed many patients with syphilis and lesions of the thyroid gland. Sometimes thyrotoxic goitre developed in patients with syphilis, who had been treated well and who showed no clinical or serological signs. Such cases require an additional anti-syphilitic treatment prior to thyroidectomy. One woman with tabes dorsalis had an enlarged thyroid gland an no marked symptoms of hyperthyroidism. Another woman had hyperthyroidism and enlargement of the thyroid gland, concurrently with cerebral syphilis (a tumour-like lesion in the region of the infundibulum cerebri). Specific treatment caused a marked improvement of all the signs and symptoms.

Kozhernikov - Leningrad (XIII,6)



EXCERPTA MEDICA Sec.13 Vol.11/1 Dermatology,etc.Jan57

270. USTINORSKY A. V. Moscow.*Basedowism and syphilis (Russian text) VESTN. VENER. DERM. 1955, 3 (47-49)

In the course of his practice of many years' standing, the author has observed many patients with lesions of the thyroid gland. Sometimes Basedow's disease developed in patients with syphilis, who were well treated and who did not show any clinical or serological signs. In such cases the author insisted on an additional prophylactic course of anti-syphilitic treatment prior to surgical intervention. One female patient suffering from tabes dorsalis showed an enlargement of the thyroid gland and no marked symptoms of Basedow's disease. Another female patient showed pronounced symptoms of Basedow's disease and enlargement of the thyroid gland concurrently with cerebral syphilis (a tumour-like lesion in the region of the infundibulum cerebri). The specific treatment achieved a marked improvement of all the signs and symptoms. Kozhernikov - Leningrad (XIII,6)

1. Ustinov, A. A., Eng.

2. USSR (600)

4. Agricultural Machinery

7. Machine for setting up mechanical windbreaks in sandy regions, Les i step', 14, No. 11, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

USTINOV, A. A.

"Root (Gall) Nematodes in the U. S. S. R.," in Collected Works on Nematodes of Agricultural Crops, State Publishing House of Kolkhoz and Sovkhoz Literature, Moscow, 1939, pp. 26-64. 464.35 K63

SO: SIRA, SI 90-53, 15 December 1953

USTINOV, A. A.

"New in the study of the gall nematode - Heterodera marioni"(Gorn., 1879) Goodey. (Biologicheskii Institut Kar'kovskogo Gosudarstvennogo Universiteta). Tr. ... 5-49.

SO: Collection of works on Nematodes of Agricultural Plants, Ed. by A. S. Khrykova, Gosizdat. Kolkhoz i Sovkhoz Lit., 1939, Moscow-Leningrad

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LESTINOV, A. A.

"Novoe v urhenii o gallovoi nematode" (New in the study of the gall nematode) [illegible] 42.

SO: Collection of Works on Nematodes of Agriculture. Plants, ed. by L. N. Kirpatova, Goskhozizdat. Kolkhoz i Sovkhoz Lit., 1938, Moscow-Leningrad 445 (31.5 .C6

USTINOV, A. A.

Ustinov, A. A. and Mitrofanov, F. I. "Testing of new organic compounds in the control of the gall nematode." (Alkhanskaia Karantinnaia Laboratoriia). pp. 46 -[illegible].

SO: Collection of Works on Nematodes of Agricultural Plants, Ed. by S. S. Khlynova, Gosizdat. Kolkhoz i Sovkhoz Lit., 1939, Moscow-Leningrad 632.5 .46

USTINOV, A. A.

"The root-knot nematode Heterodera marioni (Cornu) in the U. S. S. R." (Results of the Plant-Quarantine Administration work in the U.S.S.R.)

SO: Collection of Works on Nematodes of Agricultural Plants, Ed. by L. S. Kir'yanova, Gosizdat. Kolkhoz i Sovkhoz Lit., 1939, Moscow-Leningrad 475
632.5
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[redacted], [redacted], [redacted].

Nematoda

Experiment with new organic preparations in combatting Heterodera marioni Cornu. Trudy Zool. inst. AN SSSR. 9 no. 2, 1951

9. Monthly List of Russian Accessions, Library of Congress, August 1953, Uncl.

USTINOV, A. A.

"New Aspects in the Study of the Root-Knot Nematode Heterodera marioni (Cornu 1879) Goodey," Trudy Zool. Inst., Izdat Ak Nauk SSSR, 9, No.2, 1951

Translation A-46584, 10 Oct 55

[illegible], A. A.

Geograficheskaya [illegible] sbornik rabot, "Works on Helminthology" on the 75th Birthday of K. I. Skryabin, Izdat, Akad. Nauk, SSSR, 1953, page [illegible]. Sci, Res. Inst. of Biology, Khar'kov State University

MOLDAVSKAYA, V.D.;TISHCHENKO, O.D.;USTINOV, A.A.;MOSHENSKAYA, F.A.;ZALKIND, L.B.; MIKHAYLOV, A.A.;TSUKANOV, A.K.;MATSUKA, A.G.

Eradication of malaria in a city in Southern Ukraina. Med. parazit., Moskva no.3:232-237 May-June 1953. (CLML 25:1)

1. Of the Ukrainian Institute of Malaria and Medical Parasitology (Director -- I. A. Demchenko), Stalino and Zhdanov Anti-Malarial Stations.

USTINOV, A.A.

Morphological, ecological, and physiological characteristics of different populations of root knot nematodes. Trudy probl. i tem. soveshch. no.3:48-69 '54. (MLRA 8:5)

1. Nauchno-issledovatel'skiy institut biologii Khar'kovskogo Gosudarstvennogo universiteta im. A.M.Gor'kogo.
(Root knot) (Nematoda)

USTINOV, A.A.

Biological basis for measures to combat plant helminths [English summary in insert]. Zool.zhur.35 no.2:162-172 F '56. (MLRA 9:7)

1.Nauchno-issledovatel'skiy institut biologii Khar'kovskogo gosudarstvennogo universiteta.
(Nematoda)

USTINOV, A.A.

Protective and decorative trees and plants for roadside improvement. Avt. dor. 20 no.2:18 F '57. (MLRA 10:4)
(Roadside improvement)

USTINOV, Aleksandr Aleksandrovich, doktor biolog.nauk; MEDVEDEV, S.I., prof., otv.red.; NESTERENKO, A.S., red.; CHURIY, Ye.V., tekhred..

[Gall nematode; a monograph on agronomic helminthology] Gallovaia nematoda; monografiia po agronomicheskoi gel'mintologii. Khar'kov, Izd-vo Khar'kovskogo gos.univ., 1959. 292 p. (MIRA 13:5)
(Nematode diseases of plants)

USTINOV, A.A., doktor biolog.nauk; KOZYREV, G.S., dotsent, kand.biolog. nauk

"Hematological atlas of farm and laboratory animals" by V.N. Nikitin. Reviewed by A.A.Ustinov, G.S.Kozyrev. Veterinariia 36
no.6:85-86 Je '59. (MIRA 12:10)
(Veterinary medicine) (Blood--Diseases)
(Nikitin, V.N.)

USTINOV, A.A., doktor biolog.nauk; ZINOV'YEV, V.G., nauchnyy sotrudnik

Diseases of clover caused by nematodes. Zashch. rast. ot vred. i bol. 5 no. 8:54-55 Ag '60. (MIRA 13:12)

1. Khar'kovskiy universitet (for Zinov'yev).
(Clover--Diseases and pests) (Nematoda)

USTINOV, A.A., doktor biolog.nauk; TERESHCHENKO, Ye.F. [deceased]

Stem nematode of potatoes. Zashch.rast.ot vred.i bol. 4 no.6:29-31 N-D '59. (MIRA 15:11)
(Potatoes--Diseases and pests) (Nematode diseases of plants)

USTINOV, A.A.; Prinimali uchastiye: IL'INA, N.I.; LIPOVETSKIY, G.S.

Use of glass plastics in orthopedia. Plast.massy no.8:70 '62.
(MIRA 15:7)

(Orthopedic apparatus) (Glass reinforced plastics)

USTINOV, A.A.; ZINOV'YEV, V.G.

Grain nematodes. Zashch. rast. ot vred. i bol. 6 no.4:24-25 Ap '61. (MIRA 15:6)

(Grain--Diseases and pests)
(Nematode diseases and plants)

SOV/112-57-9-18789

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 9, pp 106-107 (USSR)

AUTHOR: Ustinov, A. A.

TITLE: Methods for Electric-Motor Power Selection on a Heating Basis for Short-Time Duty With a Limited Number of Cycles (Metodika vybora moshchnosti elektrodvigatelya po nagrevu dlya povtorno-kratkovremennogo rezhima raboty pri ogranichennom chisle tsiklov)

PERIODICAL: Tr. Leningr. in-t aviats. priborostr., 1956, Nr 12, pp 44-49

ABSTRACT: With a limited number of cycles under short-time-rating conditions, the motor temperature does not attain its permissible temperature rise if the motor was selected on its short-time-rating basis for an unlimited number of startings. For correct thermal utilization of the motor, a method of motor selection is offered that involves successive approximations. The motor initially selected from a catalog on the continuous-duty basis should be checked against the following coefficients: (1) a coefficient of thermal loading

Card 1/2

Methods for Electric-Motor Power Selection on a Heating Basis for Short-Time . . . .

$p'_m = \frac{\tau''_s}{\tau_p}$ where τ''_s is a steady-state value of the temperature rise of the motor continuously loaded with power P during a time longer than $3T$; τ_p is the permissible temperature rise of the motor for a given insulation class; (2) a coefficient of mechanical overload $P'_M \approx \sqrt{P'_m}$.

If the selected motor does not satisfy conditions (1) and (2), the next motor from the same series is selected and checked again. To determine τ''_s (and consequently the coefficients P'_m and P'_M), the time constants of heating and cooling of the motors in question should be known.

M.I.K.

Card 2/2

SOV/112-57-9-18678

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 9, p 84 (USSR)

AUTHOR: Ustinov, A. A.

TITLE: The Problem of Reducing Residual Magnetism in Electrical Machinery (K voprosu snizheniya ostatochnogo namagnicheniya v elektricheskikh mashinakh)

PERIODICAL: Tr. Leningr. in-t aviats. priborostr., 1956, Nr 12, pp 50-67

ABSTRACT: To reduce the residual magnetism and additional AC magnetization in electrical machinery (specifically in amplidynes), the so-called "magnetic shaking" can be used. As the fundamental component of residual magnetism is due to the coercitive force of the yoke, the main AC demagnetizing winding is placed on the yoke. In addition, an AC winding is placed on the poles in such a way that the alternating magnetic flux in the air gap is equal to zero, and is at maximum in the yoke. This results in reduction of residual voltage by 80% without distorting the voltage wave-shape on the machine output. A method for determining optimum ampere-turns for "magnetic shaking" is given. Results of experimental verification of the method are presented.

I. Ya. B.

Card 1/1

SOV/112-60-2-3.571

Translation from: Referativnyy zhurnal Elektrotekhnika, 1960, Nr 2, pp 105 - 106 (USSR)

AUTHOR: Ustinov, A.A.

TITLE: Principles of Selecting a Dynamo and Calculation of Winding Parameters of a Regenerative Amplidyne

PERIODICAL: Tr. Leningr. in-t aviats. priborostr., 1958, Nr 26, pp 68 - 80

ABSTRACT: The Generator-Motor (G-M) system with a regenerative amplidyne (of longitudinal field) is often used to regulate the rotating speed of motors within broad limits at sufficiently rigid mechanical characteristics. Equations relating to the amplification factor of the amplidyne with the design parameters of a dynamo are given. To make an amplidyne it is advisable to select a dynamo with the maximum transconductance of magnetization characteristics and the minimum residual voltage. Methods of calculating control winding parameters of the amplidyne in the G-M circuit are given, based on the condition of obtaining the desired static characteristics. It is assumed that

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the rotating speeds of the generator and the amplidyne are constant and all electric machines are compensated. When rigid feedbacks by current and voltage of the generator are used and also when winding parameters of the amplidyne are properly calculated, rigid mechanical characteristics of the motor are obtained.

S.M.D.

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SOV/110-59-3-2/25

AUTHOR: Ustinov, A.A. (Engineer)

TITLE: Methods of Improving the Characteristics of Direct Current Driving Motors for Automatic Speed Control Systems (Sposob uluchsheniya kharakteristik privodnykh dvigateley postoyannogo toka sistem avtomaticheskogo regulirovaniya skorosti)

PERIODICAL: Vestnik Elektropromyshlennosti, 1959, Nr 3, pp 3-8 (USSR)

ABSTRACT: The use of electrical machine automatic devices in automatic speed control systems of direct current motors often does not ensure that the driving motors have sufficiently good characteristics. One of the main reasons for this is the presence of remanent voltage in the generators and amplidynes used in the automatic speed control systems. Several methods are used to reduce the remanent magnetism of amplidynes but they all have their disadvantages: the use of cold rolled steel greatly increases the cost of the amplidynes; the use of magnetic shunts to provide a return path for the remanent flux increases the zone of insensitivity of the amplidyne; the use of rigid feed back on the amplidyne voltage reduces the amplification factor of the amplidyne;

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annealing of the magnetic system of the amplidyne can reduce the coercive force by reducing the internal stresses due to cold working but the equipment required is rather complicated. The passage of power frequency alternating current through a special winding mounted on the magnetic system of the amplidyne can reduce the remanent voltage but this method too has a considerable number of disadvantages. The following method has been found to overcome the defects of the a.c. magnetisation system. Since the main component of the remanent magnetism of the amplidyne is due to the coercive force of the armature the main a.c. demagnetising winding is located on the amplidyne armature. In this case the magnetic flux in the air gap of the amplidyne contains harmonic components. To overcome this there is applied to the poles of the amplidyne an alternating magnetic flux with the frequency of the pulsating flux and of equal amplitude which opposes the flux set up by the main a.c. winding. A theoretical

 explanation of the mechanism by which this reduces the

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remanent magnetism is then given. The theoretical explanation was fully confirmed by the results of practical tests, which are plotted graphically in Fig.2, which give the remanent voltage as a function of the armature ampere/turns. A complete hysteresis cycle taken during magnetisation of a test amplidyne to 0.95 of the rated voltage is given in fig.3. The remanent voltage of the amplidyne is a minimum when the alternating magnetic flux in the machine air gap is practically absent. The output wave shape of the amplidyne voltage for this condition is shown in the oscillogram of fig.4 and for comparison fig.5 gives a corresponding oscillogram when no steps are taken to reduce the remanent magnetism. A method of determining the best number of a.c. amp turns to apply to the armature and poles is then explained. Formulae are given for the characteristics of the winding and for the currents that should flow in them. It is concluded that the method described can considerably improve the

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characteristics of electric driving motors for automatic speed control systems of direct current motors. The use in some amplidynes of a cross-field method of reducing the remanent voltage, combined with suitably designed a.c. magnetising windings can give an analogous result. There are 6 figures and 2 Soviet references.

SHENKER, S.I., inzh.; BARBASHEV, G.K., inzh.; SHEVELEVA, G.P., inzh.; USTINOV, A.A., inzh.

Operation of automatic shaft furnaces. TSement 31 no.1:16-18 Ja-F '65. (MIRA 18:4)

1. Slantsevskiy tsementnyy zavod.

NOSOV, R.P., glav. red.; POLONSKIY, G.A., red.; USTINOV, A.D., red.; FRENKEL', G.Ya., red.; RUBINOV, A.B., red.; KHRISTENKO, V.P., red.; BORUNOV, N.I., tekhn. red.

[Protection of metal structures and mechanical equipment against corrosion in hydraulic engineering; from materials of a conference held by the "Gidromontazh" Trust of the Ministry of Electric Plant Construction of the U.S.S.R. on 24-26 June. 1960]Zashchita metallokonstruktsii i mekhanicheskogo oborudovaniia gidrotekhnicheskikh sooruzhenii ot korrozii; po materialam soveshchaniia, provedennogo trestom "Gidromontazh" Ministerstva stroitel'stva elektrostantsii SSSR 24-26 iiunia 1960 g. Moskva, Gosenergoizdat, 1961. 55 p. (MIRA 15:7)

(Hydraulic structures—Corrosion) (Protective coatings)

USTIMOV, L.G., arkhitektor

Color in mechanical assembly shops of shipbuilding plants.
Svarochnoe delo 39 no.10:9-13 O '64.
(MIRA 17:12)

USTINOV, A. I., inzh.

New methods for blasting rough stones. Bezop. truda v prom. 5 no.11:12 N '61. (MIRA 14:11)
(Blasting)

KURBATSKIY, I.L.; USTINOV, A.I.; CHERNYY, A.A.; MURZIN, V.G.; SOSNOVSKIY, Ye.D.; PAVLENKO, N.S.; KHILYUK, A.S.; RUSALKIN, V.A.

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KURBATSKIY, I.L., inzh.; PETROV, I.P., inzh.; USTINOV, A.I., inzh.;
CHERNYY, A.A., inzh.; MURZIN, V.G., inzh.; ZHITOMIRSKIY, M.B., inzh.

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Khim.mashinostr. no.5:36-37 S-O '63. (MIRA 16:10)

MISHUKOV, F.A., kand.tekhn.nauk; FOMIN, S.F., dotsent; USTINOV, A.I.

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1. Penzenskiy kompressornyy zavod. 2. Glavnyy metallurg Penzenskogo kompressornogo zavoda.

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Oxidizing roasting of antimony and mercury and antimony flotation concentrates in a fluidized bed. TSvet. met. 36 no.12:34-37 D '63.
(MIRA 17:2)

USTINOV, A.M.

The physical nature of the process of gas liberation from a coal massif under the effect of a depression. Nauch. trudy KNIUI no.16:113-121 '64. (MIRA 18:7)

USTINOV, A.M.; KOSTRITSYN, V.K.

Differentiating individual factors affecting the volume of gas liberation in mines. Nauch. trudy KNIUI no.16:121-133 '64. (MIRA 18:7)

USTINOV, A.M.; VOL'SKIY, V.K.

Effect of the amount of gas in a seam on the length and advancement of the longwall. Nauch. trudy KNIUI no.16:134-140 '64. (MIRA 18:7)

USTINOV, A.M.; KALIYEV, S.G.

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Method of calculating the economic efficiency of improving mine ventilation. Nauch. trudy KNIUI no.16:163-167 '64. (MIRA 18:7)

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[Mining of coal deposits in Kazakhstan] Razrabotka ugol'nykh mestorozhdenii Kazakhstana. Moskva, Nedra, 1965. 292 p. (MIRA 18:5)

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Removal of copper and lead from cadmium solutions. TSvet. met. 38 no.9:45-47 S '65. (MIRA 18:12)

USTINOV, A.N., inzhener.

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Considerations on the use of the KKR-2 potato combine in 1954.
Sel'khozmashina no.5:3-5 My '55. (MLRA 8:6)
(Potatoes-- Harvesting) (Combines (Agricultural machinery))

USTINOV, A.N.

Economic efficiency of using unfinished plowshares and moldboards.
Biul.tekh.-ekon.inform. no.5:48-49 '58. (MIRA 11:7)
(Plows)

USTINOV, A.N., inzh.

New machinery and equipment for soil cultivation and potato harvest. Trakt. i sel'khozmash. no.11:35-37 N '58. (MIRA 11:11)

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(Agricultural machinery) (Potato digger (Machine))

USTINOV, Arkadiy Nilovich; GRYAZNOV, V.I., red.; PYATAKOVA, N.D., tekhn.red.

[Statistical study of the utilization of fixed assets in an industrial enterprise] Statisticheskoe izuchenie ispol'zovaniia osnovnykh fondov promyshlennogo predpriiatiia. Moskva, Gos.stat.izd-vo, 1959. 129 p. (MIRA 13:1)
(Metal--Industrial statistics)

USTINOV, A. N., Cand Tech Sci -- (diss) "Research into the influence of the cleanness of the working surfaces of plowshares and moldboards on the basic indices of plow performance. (Pulling resistance, adherence, wear, economic efficiency, and other indices)." Moscow, 1960. 40 pp; with graphs; 1 page of tables; (Ministry of Agriculture USSR, Moscow Inst of Mechanization and Electrification of Agriculture); 150 copies; price not given; printed on duplicating machine; (KL,19-60,135)

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Results obtained from investigating the effect of working surface smoothness on the life plowshares and moldboards. Trakt. i sel'-khozmash. 30 no.11:25-26 N '60. (MIRA 13:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyay-stvennogo mashinostroyeniya.
(Plows)

BAKLANOV, G.I., prof.; IVANOV, A.I., dots.; SHIFMAN, A.G., dots.; USTINOV, A.N., dots.; GRYAZNOV, V.I., red.; KAPRALOVA, A.A., tekhn. red.

[Statistics of an industrial enterprise] Statistika promyshlennogo predpriiatiia. Pod red. G.I.Baklanova. Moskva, Gosstatizdat TsSU SSSR, 1961. 434 p. (MIRA 14:12)

1. Moscow. Ekonomiko-statisticheskiy institut. Kafedra promyshlennoy statistiki. 2. Kafedra promyshlennoy statistiki Moskovskogo ekonomiko-statisticheskogo instituta (for Baklanov, Ivanov, Shifman, Ustinov).

(Industrial statistics)

USTINOV, A.N., inzh.

Specialized plows. Trakt.i sel'khozmash. 32 no.9:33-34 S '62.
(MIRA 15:12)

(Plows)

USTINOV, A.N.

Rated determination of the viscosity coefficient of crankcase gases of two-cycle engines. Avt.prom. 29 no.10:9-10 O '63. (MIRA 16:10)

1. Balakovskiy zavod imeni Dzerzhinskogo.

USTINOV, A.N.

The RP-2,1 rotary scarifier. Trakt. i sel'khozmash. 33 no.9: 35-36 S '63. (MIRA 16:10)

(Tillage—Equipment and supplies)

USTINOV, A.N., kand.tekhn.nauk

Studying experimental plowshares. Trakt. i sel'khozmash. 33 no.12: 29-30 D 63. (MIRA 17:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'khozyaystvennogo mashinostroyeniya.

USTINOV, A.N., inzh.; RAZUMOV, P.I., inzh.; ZAYTSEV, D.P., inzh.

Attachment for the use of the UPOL-6 device in determining the wear of crankshaft journals and bearings. Vest.mashinostr. 43 no.2:77-78 F '63. (MIRA 16:3)
(Mechanical wear--Measurement)

ADAMOV, V.Ye.; BAKLANOV, G.I., prof.; IVANOV, A.I.; SAMOYLOVA,A.A.; USTINOV, A.N.; SHIFMAN, A.G.; SHCHEDRIN, N.I.; CHIZHEVSKAYA, K.M., red.

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BAKLANOV, Gleb Ivanovich, prof.; IVANOV, Aleksandr Ivanovich, dots.; USTINOV, A.N., dots.; SHIFMAN, A.G., dots.; NOVIKOVA, S.N., red.

[Industrial statistics] Statistika promyshlennosti. Moskva, Statistika, 1965. 358 p. (MIRA 18:6)

Ustinov, A.P.

94-1-16/24

AUTHORS: Aleksandrov, A.A. and Ustinov, A.P.

TITLE: A Roller-type Current Rectifier (Rolikovyy vypryamitel' toka)

PERIODICAL: Promyshlennaya Energetika, 1958, No.1, pp. 33 - 34 (USSR)

ABSTRACT: This brief article describes mechanical rectifiers developed by the German firm Kalor-Emag in which the contact system includes rollers. The equipment is suitable for production of medium-voltage d.c., and can be paralleled with mercury-arc rectifiers. The operating principle is described and illustrated with reference to Fig.1. There are two stationary sectionalised contact rings which are bridged as required by moving rollers. Equipment for 4 000 A d.c. has 6 pairs of contact segments. Equipment for 12 000 A is illustrated in Fig.2. The firm of Kalor-Emag manufactures two types of rectifier, one vertical, as illustrated in Fig.3, and the other a double horizontal arrangement, illustrated in Fig.4. The main characteristics of the equipment are tabulated. There are 4 figures.

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SHMELEV, Vladimir Pavlovich; USTINOV, A.P., spetsred.; FRISHMAN, Z.S., red.izd-va; DROZHZHINA, L.P., tekhn.red.

[Fuel feeding equipment on modern marine diesel engines] Toplivnaia apparatura sovremennykh sudovykh dizelei. Leningrad, Izd-vo "Morskoi transport," 1959. 137 p. (MIRA 13:10)
(Marine diesel engines--Fuel systems)

USTINOV, A. U. PA 42/49T78

USSR/Minerals Apr 49
Coal
Coal Gas

"Experimental Gasification of Borovichi Coal,"
A. U. Ustinov, A. S. Braginskiy, Engineers, 4 pp

"Za Ekonomiyu Topliva" Vol VI, No 4

Gasification of Borovichi coal is fully possible. Best results in gasification of Borovichi coal were obtained when using screened coal with a productivity of 17.5 tons a day. Gasification of Borovichi coal with low-melting ash is accompanied by thick slag formation. Thus, servicing the gas-generators would require many attendants.
42/49178

USTINOV, A.Ya.; ZHAK, N.F.

Using carbon dioxide to combat rodents at the Orekhovo-Zuyevo Cold Storage plant. Khol. tekh. 38 no.6:50-51 N-D '61. (MIRA 15:1)

(Orekhovo-Zuyevo--Cold storage warehouses)
(Rodent control)

L 27345-66
ACC NR: AP6007699 SOURCE CODE: UR/0413/66/000/003/0079/0079

AUTHORS: Petrov, G. N.; Nikolayevskiy, Ye. V.; Suyetin, V. A.; Ustinov, A. P.; Kozlyaninov, T. P.; Kazakov, B. R.

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B

ORG: none

TITLE: A device for balancing three-dimensional mechanisms with nonparallel rotation axes of the components. Class 42, No. 178542 [announced by Moscow Higher Engineering College im. N. E. Bauman (Moskovskoye vyssheye tekhnicheskoye uchilishche)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 79

TOPIC TAGS: measuring instrument, static load test, dynamic stress

ABSTRACT: This Author Certificate presents a device for balancing three-dimensional mechanisms with nonparallel rotation axes of the components. The device contains a platform with six degrees of freedom and a measuring unit (see Fig. 1.). The design provides simultaneous measuring of the static, dynamic, and axial components of unbalance in the mechanisms. The measurement unit of the device includes three unbalance sensing elements. The axis of sensitivity of one of the sensing elements

Card 1/2 UDC: 620.1.05:531.24

L 27345-66

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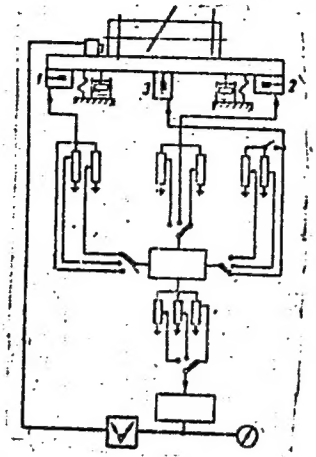

Fig. 1. 1-3 - sensing elements.

is parallel to the axes of sensitivity of the other two. Orig. art. has: 1 figure.

SUB CODE: 14, 09/ SUBM DATE: 16May64

Card 2/2

USTINOV, B.A.

[Principles of construction work] Osnovy stroitel'nogo dela. Moskva, Goslesbumizdat, 1951. 245 p. (MLRA 7:2)
(Building)